National Load Despatch Centre
Total Transfer Capability for March 2015

Issue Date: 24/03/2015 Issue Time: 1230 hrs Revision No. 28

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
NR-WR *	1st March 2015 to 31st March 2015	00-24	2500	500	2000	706	1294		
WR-NR	1st March 2015 to 12th March 2015	00-24	4200	500	3700	4768	0		
	13th March 2015	00-09'	4200	500	3700	4768	0		
		09-16'	3200		2700	4768	0		
		16-24	4200		3700	4768	0		
	14th March 2015 to 18st March 2015	00-24	4200	500	3700	4768	0		
	19th March 2015 to 31st March 2015	00-24	4900	500	4400	4768	0		
NR-ER*	1st March 2015 to 31st March 2015	00-06 18-24	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
ER-NR	1st March 2015 to 11th March 2015	00-17 23-24	3100	300	2800	2431	369		
		17-23	3200		2900		469		
	12th March 2015 to 22nd March 2015	00-17 23-24	2600	300	2300	2431	0		
		17-23	2600		2300		0		
	23 rd March 2015 to 31st March 2015	00-17 23-24	3100	300	2800	2431	369		
		17-23	3200		2900		469		
W3-ER$	1st March 2015 to 4th March 2015	00-24	1800	300	1500	351	1149		
	5th March 2015 to 31st March 2015	00-24	1800	300	1500	583	917		
ER-W3	1st March 2015 to 31st March 2015	00-24	1000	300	700	874	0		
WR-SR##	1st March 2015 to 23rd March 2015	00-24	2100	750	1350	1350	0		
	24th March 2015	00-08	2100	750	1350	1350	0		
		08-24'	1600		850	1350	0		
	25th March 2015 to 31st March 2015	00-24	2100	750	1350	1350	0		
SR-WR *	1st March 2015 to 31st March 2015	00-24	No limit is being Specified.						
ER-SR##	1st March 2015 to 10th March 2015	00-06 18-24	2650	0	2650	2585	65		
		06-18'				2650	0		
	11th March 2015	00-06	2650	0	2650	2585	65		
		06-09'	2650		2650	2650	0		
		09-'18	2350		2350	2650	0		
		18-24	2350		2350	2585	0		
	12th March 2015 to 18th March 2015	00-06 18-24	2650	0	2650	2585	65		
		06-18'				2650	0		
	19th March 2015	00-06 18-24	2650	0	2650	2585	65		
		06-08'				2650	0		
		08-18'	2350		2350		0		
	20th March 2015 to 31st March 2015	00-06 18-24	2650	0	2650	2585	65		
		06-18'				2650	0		
SR-ER *	1st March 2015 to 31st March 2015	00-24	No limit is being Specified.						

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Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
ER-NER	1st March 2015 to 31st March 2015	00-17 23-24	650	40	610	210	400		
		17-23	720		680		470		
NER-ER	1st March 2015 to 31st March 2015	00-17 23-24	990	30	960	0	960		
		17-23	1050	40	1010		1010		
S1-S2	1st March 2015	00-10	2875	315	2560	2535	25		
		10-13'	2625		2310		0		
		13-22	2875		2560		25		
		22-24	3190		2875		340		
	2nd March 2015 to 3rd March 2015	00-24	3190	315	2875	2535	340		
	4th March 2015	00-1530	3190	315	2875	2535	340		
		1530-24	3485	315	3170	2644	526		
	5th March 2015	00-08	3485	315	3170	2644	526		
		08-18'	3335		3020		376		
		18-24	3485		3170		526		
	6th March 2015	00-24	3485	315	3170	2644	526		
	7th March 2015	00-09	3485	315	3170	2644	526		
		09-'19	3340		3340	2644	696		
		19-24	3485		3170	2644	526		
	8th March 2015 to 9th March 2015	00-24	3485	315	3170	2644	526		
	10th March 2015	00-12	3485	315	3170	2644	526		
		12-24'	3485		3170		526		
	11th March 2015 to 12th March 2015	00-24	3485	315	3170	2644	526		
	13th March 2015	00-11	3485	315	3170	2644	526		
		11-'24	3770		3455	2752	703		
	14th March 2015	00-08	3485	315	3170	2644	526		
		08-24'	3415		3100		456		
	15th March 2015	00-10	3415	315	3100	2644	456		
		1000-1730	3110		2795		151		
		1730-'2400	3415		3100		456		
	16th March 2015	0000-1130	3110	315	2795	2644	151		
		1130-2400	3415		3100		456		
	17th March 2015	00-24	3250	315	2935	2644	291		
	18th March 2015	00-24	3250	315	2935	2644	291		
	19th March 2015	00-24	3310	315	2995	2600	395		
	20th March 2015	00-12	3000	315	2685	2600	85		
		12-24'	3165		2850	2644	206		
	21st March 2015	00-24	3165	315	2850	2644	206		
	22nd March 2015 to 24th March 2015	00-24	3165	315	2850	2644	206		
	25th March 2015	00-08'	3165	315	2850	2644	206	165	Revised due to entension of outage of Vallur unit 3
		08-17'	2520		2205	2644	0	-480	Revised due to shutdown of 400 kV Somanhalli - Hosur
		17-24	3000		2685	2600	85	0	
	26th March 2015 to 31st March 2015	00-24	3000	315	2685	2600	85		

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Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
Import of Punjab	1st March 2015 to 31st March 2015	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st March 2015 to 31st March 2015	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection ##	1st March 2015 to 4th March 2015	00-17	9400	200	9200	6862	2338		
		17-23	9900		9700		2838		
	5th March 2015 to 31st March 2015	00-17	9400	200	9200	7094	2106		
		17-23	9900		9700		2606		

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

$ As per Simulations, predominant direction of flow is on West to North Corridor. Hence, in case injection point is in Western Region (W1,W2,W3), STOA/PX transactions from West to North on West-East-North corridor shall not be allowed as such transaction increases congestion in the West to North Corridor.

1) S1 comprises of AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry
2) W3 comprises of the following regional entities :
a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak

f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) Korba, j) Sipat, k) KSK Mahanadi, L)DB Power, m) KWPCL, n)Vandana Vidyut

232 MW MTOA w.e.f 01.03.2015 was approved by CTU. CERC vide order dated 16-02-2015 in petition no. 92/MP/2014 is under further implementation by CTU as per the timelines given in the order. Pending this any margins would be released for short term transactions on day ahead basis.

The figure is based on LTA/MTOA approved by CTU and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/

Fuel shortage/New units being commissionned the LTA/MTOA utilized would vary. RLDC/NLDC would factor this situation on day-ahead basis.
In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC.

In case of TTC Revision due to any shutdown :
1) The TTC value will be revised to normal values after restoration of shutdown.
2) The TTC value willl be revised to normal values if the shutdown is not being availed in real time.

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	High Loading of 400kV Singrauli-Anpara & High loading of 765 kV Agra-Gwalior (1250 MW SPS setting
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	(n-1) contingnecy of Kahalgaon-Banka S/C
W3-ER	i. (n-1) Contingency of 400 kV MPL-Maithon S/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as
ER-NER	(n-1) contingnecy of Kahalgaon-Banka S/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV,
S1-S2	(n-1) contingency of one circuit of 400 kV Kolar-Hosur
Import of DD & DNH	(n-1) contingency of 400/220KV 315MVA ICT at VAPI
Import of Punjab	(n-1) contingency of ICT at Dhuri and (n-1) contingnecy of 220kV Moga(PG)-Moga(PSTCL)
W3 zone Injection	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha (850 MW SPS setting on each circuit of 400kV Raipur-Wardha)

*Primary constraints

Simultaneous Import Capability

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
ER									
NR	1st March 2015 to 11th March 2015	00-17 23-24	7300	800	6500	7199	0		
		17-23	7400		6600		0		
	12th March 2015	00-17 23-24	6800	800	6000	7199	0		
		17-23	6800		6000		0		
	13th March 2015	00-09	6800	800	6000	7199	0		
		09-16'	5800		5000		0		
		16-24	6800		6000		0		
	14th March 2015 to 18th March 2015	00-17 23-24	6800	800	6000		0		
		17-23	6800		6000		0		
	19th March 2015 to 22 nd March 2015	00-17 23-24	7500	800	6700	7199	0		
		17-23	7500		6700		0		
	23rd March 2015 to 31st March 2015	00-17 23-24	8000	800	7200	7199	1		
		17-23	8100		7300		101		
NER	1st March 2015 to 31st March 2015	00-17 23-24	650	40	610	210	400		
		17-23	720		680		470		
WR									
SR##	1st March 2015 to 10th March 2015	00-06 18-24	4750	750	4000	3935	65		
		06-18'	4750		4000	4000	0		
	11th March 2015	00-06	4750	750	4000	3935	65		
		06-09'	4750		4000	4000	0		
		09-18'	4450		3700	4000	0		
		18-24	4450		3700	3935	0		
	12th March 2015 to 18th March 2015	00-06 18-24	4750	750	4000	3935	65		
		06-18'	4750		4000	4000	0		
	19th March 2015	00-06 18-24	4750	750	4000	3935	65		
		06-08'	4750		4000	4000	0		
		08-18'	4450		3700	4000	0		
	20th March 2015 to 23rd March 2015	00-06 18-24	4750	750	4000	3935	65		
		06-18'	4750		4000	4000	0		
	24th March 2015	00-06	4750	750	4000	3935	65		
		06-08'	4750		4000	4000	0		
		08-18'	4250		3500	4000	0		
		18-24'	4250		3500	3935	0		
	25th March 2015 to 31st March 2015	00-06 18-24	4750	750	4000	3935	65		
		06-18'	4750		4000	4000	0		

Simultaneous Export Capability

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
NR*	1st March 2015 to 31st March 2015	00-06 18-24	4500	700	3800	999	2801		
		06-18'			3800	1064	2736		
NER	1st March 2015 to 31st March 2015	00-17 23-24	990	30	960	0	960		
		17-23	1050	40	1010		1010		
WR									
SR *	1st March 2015 to 31st March 2015	00-24	No limit is being Specified.						

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

232 MW MTOA w.e.f 01.03.2015 was approved by CTU. CERC vide order dated 16-02-2015 in petition no. 92/MP/2014 is under further implementation by CTU as per the timelines given in the order. Pending this any margins would be released for short term transactions on day ahead basis.

Limiting Constraints

NR	**Import**	(n-1) contingnecy of Kahalgaon-Banka S/C
		High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
		(n-1) contingency of 400 kV Saranath-Pusauli
NER	**Import**	(n-1) contingnecy of Kahalgaon-Banka S/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
SR	**Import**	1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
		2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.

*Primary constraints

National Load Despatch Centre
Total Transfer Capability for March 2015

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	29-12-2014	Whole Month	Margin revised due to change in LTA/MTOA.	NR-WR/ ER-W3/ W3-ER
			Margin revised due to COD of Sasan Unit-5.	WR-NR
2	12-02-2015	Whole Month	Margin revised due to cancellation of LTA/MTOA	NR-WR/ ER-W3
3	23-02-2015	Whole Month	Revised considering the LGBR changes given by constituents in 104th SRPC OCC meeting, Kudankulam Unit-1 and Energen Unit-1 Commissioning.	S1-S2
4	25-02-2015	Whole Month	Revised due to Commissioning of Vallur Unit-3.	S1-S2
			Revised considering full generation at Rihand/Singrauli complex.	WR-NR
5	28-02-2015	01-03-2015	Revised due to shutdown of 400kV Pugalur-Kalivendapattu Ckt-2	S1-S2
		Whole month	Rveised due to commissioning of new transmission elements in NER.	ER-NER/ NER-ER
6	01-03-2015	1/3/2015 - 10/3/2015	Revised due to NCTPS Unit-1 Outage.	S1-S2
7	03-03-2015	5/3/2015 - 31/3/2015	STOA Margin revised due to grant of MTOA from Chattisgarh to KSEB by CTU.	W3 Zone/ W3-ER
		05-03-2015	Revised due to 220kV Kadakola - Kaniyampeta Shutdown.	S1-S2
8	04-03-2015	04/03/2015 - 07/03/2015	Revised due to outage of Vallur Unit - 2	S1-S2
9	06-03-2015	07-03-2015	Revised due to shutdown of 400kV Cudappah - Chitoor-Sriperumbudur S/C.	S1-S2
10	07-03-2015	08-03-2015 - 10-03-2015	Revised due to extension of outage of Vallur Unit-2	S1-S2
11	09-03-2015	10-03-2015 - 12-03-2015	Revised due to extension of Vallur Unit-2 outage and synchornisation of NCTPS Stage-2 Unit -1	S1-S2
12	10-03-2015	11-03-2015	Revised due to shutdown of 400 kV Indravati - Jeypore S/C	ER-SR
13	10-03-2015	11-03-2015	Revised due to extension of outage of Vallur unit 2 and NCTPS stage 2 unit 1.	S1-S2
14	11-03-2015	12-03-2015 22-03-2015	Revised due to the shutdown of 400 kV Biharshariff-Lakhisarai D/C	ER-NR
15	12-03-2015	13-03-2015	Revised due to shutdown of HVDC Mundra - Mahendragarh pole 1	WR-NR
		13-03-2015- 16-03-2015	Revised due to extension of Vallur Unit-2 and outage of NCTPS Stage-2 Unit -1	S1-S2
		17-03-2015	Revised due to extension of NCTPS Stage-2 Unit -1 outage & Less generation at Vallur	
		18-03-2015 - 31-03-2015	Revised due to revival of NCTPS Stage-2 Unit -1 & less generation Vallur	
16	13-03-2015	13-03-2015	Revised due to outage of Vallur unit 3	S1-S2
		14-03-2015 - 18-03-2015	Revised due to shutdown of 400kV Kurnool-Tiruvalam D/C.	

National Load Despatch Centre
Total Transfer Capability for March 2015

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
17	15-03-2015	15-03-2015 - 17-03-2015	Revised due to synchronisation of NCTPS Unit-1	S1-S2
18	15-03-2015	15-03-2015	Revised due to outage of NCTPS-II Unit-1	S1-S2
19	16-03-2015	16-03-2015	Revised due to outage of NCTPS-II Unit-1	S1-S2
20	16-03-2015	17-03-2015	Revised due to extension of outage of Vallur unit-3	S1-S2
21	16-03-2015	17-03-2015 - 18-03-2015	Revised due to extension of Outage of NCTPS Unit-1 & Outage of Mettur-III Unit-1.	S1-S2
22	17-03-2015	18-03-2015	Revised due to extension of outage of Vallur unit 3	S1-S2
		19-03-2015	Revised due to extensions of the outages of Vallur unit 3 & Mettur-III unit 1	
23	18-03-2015	19-03-2015	Revised due to shutdown of 400 kV Jeypore - Indravati S/C	ER-SR
			Revised due to Mettur-III Unit-1 revival & NCTPS Unit-1 outage extension	S1-S2
24	18-03-2015	Whole month	Revised due to outage of Rihand unit 4	WR-NR
25	20-03-2015	20-03-2015- 21-03-2015	Revised due to outage of Vallur Unit-3	S1-S2
26	21-03-2015	22-03-2015 - 24-03-2015	Revised due to extension of outage of Vallur unit 3	S1-S2
27	23-03-2015	24-03-015	Revised due to shutdown of HVDC Bhadrawti Pole-1	WR-SR
28	24-03-2015	25-03-2015	Revised due to extension of outage of Vallur unit 3 and revised due to shutdown of 400 kV Somanhalli - Hosur	S1-S2

ASSUMPTIONS IN BASECASE

Month : Mar '15

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	4960	3131	2800	2520
2	Haryana	5400	3758	1864	1677
3	Rajasthan	9200	8267	4974	4974
4	Delhi	3600	1700	935	935
5	Uttar Pradesh	10650	11162	5443	5443
6	Jammu & Kashmir	1850	1994	244	244
7	Uttarakhand	1650	1115	507	190
8	Himachal Pradesh	1186	812	177	64
9	Chandigarh	189	97	0	0
10	ISGS/IPPs			15776	10793
	Total NR	**38685**	**32036**	**32720**	**26840**
II	EASTERN REGION				
1	West Bengal	5218	5202	3734	3802
2	Jharkhand	985	749	427	435
3	Orissa	3677	2354	1597	1625
4	Bihar	2216	1605	104	106
5	Damodar Valley Corporation	2561	2354	3211	3269
6	Sikkim	79	43		
7	Bhutan	107	107	110	110
8	ISGS/IPPs	513	511	8144	8100
	Total ER	**15356**	**12925**	**17327**	**17447**
III	WESTERN REGION				
1	Chattisgarh	3117	2765	1915	2062
2	Madhya Pradesh	10300	5308	5801	1000
3	Maharashtra	20963	13907	16531	8763
4	Gujarat	11198	10475	8946	7757
5	Goa	425	339		
6	Daman and Diu	262	252		
7	Dadra and Nagar Haveli	608	596		
8	ISGS/IPPs	1070	1070	22377	21836
	Total WR	**47943**	**34712**	**55570**	**41418**

ASSUMPTIONS IN BASECASE

Month : Mar '15

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh	5945	5241	5011	4762
2	Telangana	6351	5662	2707	2367
3	Tamil Nadu	12188	10362	6958	5865
4	Karnataka	8873	7418	7473	4852
5	Kerala	2699	2630	1249	1276
6	Pondy	330	319	0	0
7	Goa	89	88	0	0
8	ISGS/IPPs	0	0	9103	8630
	Total SR	**36475**	**31720**	**32501**	**27752**
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	66	33	0	0
2	Assam	713	609	220	190
3	Manipur	74	49	0	0
4	Meghalaya	166	84	77	17
5	Mizoram	51	34	6	4
6	Nagaland	57	52	7	3
7	Tripura	227	153	103	100
8	ISGS/IPPs			1089	680
	Total NER	**1354**	**1015**	**1502**	**994**
	Total All India	**139813**	**112407**	**139620**	**114451**